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1	US 20030231700 A1	20031218	148	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/144	
2	US 20030165159 A1	20030904	14	Method for compensating for peak values during a data transmission with discrete multitone symbols and a circuit arrangement for carrying out the method	370/465	370/437
3	US 20030086366 A1	20030508	115	Adaptive communications methods for multiple user packet radio wireless networks	370/208	375/150
4	US 20020159506 A1	20021031	148	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147	
5	US 20020122465 A1	20020905	179	Highly bandwidth-efficient communications	375/141	
6	US 20010031016 A1	20011018	15	Enhanced bitloading for multicarrier communication channel	375/264	370/431
7	US 6735255 B1	20040511	20	Correlation based method of determining frame boundaries of data frames that are periodically extended	375/260	370/506; 370/510; 375/343; 375/360
8	US 6643340 B1	20031104	7	Carrier phase derived symbol timing	375/354	375/260; 375/326; 375/371
9	US 6628704 B1	20030930	20	Equalizer training for ADSL transceivers under TCM-ISDN crosstalk environment	375/219	370/292; 375/231; 375/232; 375/348; 375/350; 455/307; 708/323
10	US 6621851 B1	20030916	180	Priority messaging method for a discrete multitone spread spectrum communications system	375/130	370/242; 375/135
11	US 6608864 B1	20030819	10	Method and apparatus for fault recovery in a decision feedback equalizer	375/233	375/350

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1	Alamouti, Siavash et al.
2	Straussnigg, Dietmar
3	Branlund, Dale A. et al.
4	Alamouti, Siavash et al.
5	Agee, Brian G. et al.
6	Seagraves, Ernest
7	Smart; Kevin J. et al.
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9	Long; Guozhu et al.
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12	US 6600776 B1	20030729	144	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147	375/150; 375/349
13	US 6584144 B2	20030624	143	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147	375/150; 375/347
14	US 6546056 B1	20030408	15	Timing recovery in a multi-tone modem	375/260	375/364
15	US 6480522 B1	20021112	179	Method of polling second stations for functional quality and maintenance data in a discrete multitone spread spectrum communications system	375/130	370/242; 375/135
16	US 6438186 B1	20020820	7	Carrier phase derived symbol timing	375/354	375/260; 375/326; 375/371
17	US 6359923 B1	20020319	244	Highly bandwidth efficient communications	375/130	370/342; 375/135; 375/136
18	US 6353629 B1	20020305	23	Poly-path time domain equalization	375/222	375/229; 375/349; 375/350; 708/312; 708/323
19	US 6137839 A	20001024	57	Variable scaling of 16-bit fixed point fast fourier forward and inverse transforms to improve precision for implementation of discrete multitone for asymmetric digital subscriber loops	375/260	370/210
20	US 6055268 A	20000425	75	Multimode digital modem	375/229	375/231
21	US 6044107 A	20000328	76	Method for interoperability of a T1E1.4 compliant ADSL modem and a simpler modem	375/222	
22	US 6038251 A	20000314	75	Direct equalization method	375/222	375/229; 375/231
23	US 6021167 A	20000201	61	Fast equalizer training and frame synchronization algorithms for discrete multi-tone (DMT) system	375/354	375/222

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<b>13</b>	Alamouti; Siavash et al.
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<b>15</b>	Hoole; Elliott et al.
<b>16</b>	Strait; Jeffrey C.
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<b>18</b>	Pal; Debajyoti
<b>19</b>	Mannering; Dennis G. et al.
<b>20</b>	Timm; William C. et al.
<b>21</b>	Gatherer; Alan et al.
<b>22</b>	Chen; Walter Y.
<b>23</b>	Wu; Song

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24	US 6021158 A	20000201	78	Hybrid wireless wire-line network integration and management	375/211	375/220
25	US 6002722 A	19991214	75	Multimode digital modem	375/295	375/222; 375/357
26	US 5999563 A	19991207	59	Rate negotiation for variable-rate digital subscriber line signaling	375/222	370/229; 370/484; 370/494; 375/219
27	US 5987061 A	19991116	73	Modem initialization process for line code and rate selection in DSL data communication	375/222	
28	US 5970088 A	19991019	64	Reverse channel next cancellation for MDSL modem pool	375/222	370/201; 375/346; 379/417
29	US 5910970 A	19990608	62	MDSL host interface requirement specification	375/377	375/222; 379/93.01 ; 709/200
30	US 5909463 A	19990601	24	Single-chip software configurable transceiver for asymmetric communication system	375/220	370/276; 370/295; 370/464; 370/480; 375/219; 375/221; 375/222; 455/73

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<b>25</b>	Wu; Song
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<b>27</b>	Chen; Walter Y.
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<b>29</b>	Lu; Xiaolin
<b>30</b>	Johnson; Terence L. et al.